AMENDMENTS TO THE CLAIMS

1-23. (Canceled)

- 24. (New, Withdrawn) An isolated prothrombin activator protease comprising the amino acid sequence set forth in SEQ ID NO: 3.
- 25. (New) A method for preventing prothrombotic disorders in an individual in need thereof comprising administering to said individual an effective dose of a prothrombin activator protease comprising at least one amino acid sequence selected from the group consisting of SEQ ID NOs: 1, 2, 3, 4 and 5, wherein said effective dose removes fibrinogen from circulation.
- 26. (New, Withdrawn) A method for detecting the presence of prothrombin in the plasma of a patient comprising:
- obtaining plasma from said patient;
- treating said plasma with a prothrombin activator protease comprising at least one amino acid sequence selected from the group consisting of SEQ ID NOs: 1, 2, 3, 4 and 5;
- assaying for thrombin activity in said treated plasma; and
- detecting by the thrombin formation the presence of prothrombin in the plasma of said patient.
- 27. (New, Withdrawn) The method of claim 26, wherein said patient suffers from coagulopathy disorders.
- 28. (New) A method for reducing fibrinogen from the blood, thereby preventing acute vascular thrombosis in a patient, comprising administering to the patient a prothrombin activator comprising the amino acid sequences set forth in SEQ ID NOs: 1, 2, 3, 4, and 5 wherein said prothrombin activator reduces fibrinogen in circulation.

- 29. (New) The method of claim 28, wherein said prothrombin activator is administered at an effective dose equal to or lower than $100 \mu g/kg$.
- 30. (New) The method of claim 29, wherein said prothrombin activator is obtained from L. obliqua.
- 31. (New) A method for preventing a prothrombotic state in a patient comprising administering to said patient controlled doses of a prothrombin activator comprising the amino acid sequences set forth in SEQ ID NOs: 1, 2, 3, 4, and 5 wherein said administration removes, in a controlled way, fibringen from the blood of said patient preventing clot formation.
- 32. (New) The method of claim 31 wherein said prothrombotic state patient has disseminated intravascular coagulopathy leading to a consumption coagulopathy.
- 33. (New) A method for treating prothrombotic disorders in an individual in need thereof comprising administering to said individual an effective dose of a prothrombin activator protease comprising at least one amino acid sequence selected from the group consisting of SEQ ID NOs: 1, 2, 3, 4 and 5, wherein said effective dose removes fibrinogen from circulation.
- 34. (New) A method for reducing the amount of fibrinogen in the blood of a patient, comprising administering to a patient a prothrombin activator comprising the amino acid sequences set forth in SEQ ID NOs: 1, 2, 3, 4, and 5 wherein said prothrombin activator reduces fibrinogen in circulation.